

Trw

PTO/SB/82 (09-04)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**REVOCATION OF POWER OF
ATTORNEY WITH
NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	10/786,846
Filing Date	February 25, 2004
First Named Inventor	Qiang Luo
Art Unit	2811
Examiner Name	Not Yet Assigned
Attorney Docket Number	89044PCW

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number:

01333

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with
Customer Number:

01333

OR

<input type="checkbox"/> Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone			Fax		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature			
Name	Peyton C. Watkins, Esq.		
Date	January 6, 2005	Telephone	(585) 477-8282

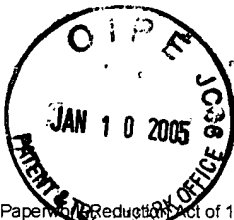
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

BEST AVAILABLE COPY



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: EASTMAN KODAK COMPANYApplication No./Patent No.: 10/786,846 Filed/Issue Date: February 25, 2004Entitled: LOW DARK CURRENT CMOS IMAGE SENSOR PIXEL HAVING A PHOTODIODE ISOLATED FROM FIELD OXIDEEASTMAN KODAK COMPANY, a DELAWARE CORPORATION

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

Peyton C. Watkins, Esq.

Printed or Typed Name

January 6, 2005

Date

(585) 477-8282

Telephone Number


Authorized Signer for Assignee

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Form PTO 1595 1-31-92 MODIFIED 2-15-93		Docket NSC	
RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
Tab settings → → → t t t t t t t t			
1. Name of conveying party(ies): NATIONAL SEMICONDUCTOR CORPORATION			
2. Name and address of receiving party(ies): Name: EASTMAN KODAK COMPANY City: Rochester State: New York Zip: 14650			
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Other:			
Execution Date: August 18, 2004			
4. Application number(s) or patent number(s): SEE "APPENDIX A" If this document is being filed together with a new application, the execution date of the application is the same as the execution date of the Assignment, <i>unless</i> stated as follows:			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Cathy M. Dasson Address: Eastman Kodak Company, Patent Legal Staff City: Rochester State: New York Zip: 14650-2201			
6. The total number of applications and patents involved is one (1) unless stated as follows: 28			
7. Total fee (37 CFR 1.21h): \$1120 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account			
8. Deposit account number: 05-0225 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE			
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>			
Cathy M. Dasson Name of Person Signing		 Signature	
		November 11, 2004 Date	
Total number of pages including cover sheet:			5

ASSIGNMENT OF INVENTION

THIS Assignment is effective the 18 day of August, 2004,

BETWEEN **NATIONAL SEMICONDUCTOR CORPORATION**, of 2900 Semiconductor Drive, Santa Clara, California 95051, USA, a corporation of the State of Delaware (hereinafter the "Assignor"), who is the owner of the entire title in the United States applications set forth in Appendix A and in the inventions covered by said applications; and

EASTMAN KODAK COMPANY, of 343 State Street, Rochester, New York 14650, USA, a corporation of the State of New Jersey (hereinafter the "Assignee"), who wants to acquire the entire title of Assignor in the aforesaid applications and the inventions covered thereby.

THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor does hereby assign unto Assignee its entire title in and to said inventions covered by said applications, and all corresponding applications and patent applications in countries other than the United States, and all reissues, divisions and extensions thereof and to any Letters Patent which have or may issue based thereon, all of which are encompassed herein by the term "Applications", including all claims for damage for past infringement thereof; the same to be held and enjoyed by Assignee, its successors, and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made.

Assignor also agrees that it will, at Assignee's request, render such lawful cooperation and assistance as may be necessary for the proper maintenance and enforcement of said applications, provided, however, that Assignor may condition its compliance with such a request on Assignee's agreement to pay Assignor reasonable out-of-pocket expenses in connection therewith.

This document shall be construed, interpreted and applied in accordance with the laws of the State of New York.

IN WITNESS THEREOF, the parties have caused their respective corporate names to be affixed hereto and this instrument to be signed by their duly authorized officers as of the day and year written below.

Signed this 2nd day of November, 2004.

National Semiconductor Corporation

By [Signature]
John M. Clark

Senior Vice President, General Counsel and Secretary

Witnessed by: Karen L. Metz

Signed this 10 day of November, 2004,

Eastman Kodak Company

By [Signature]
Willy C. Shih

President Display & Components

Senior Vice President, Eastman Kodak Company

Witnessed by: Constance S. Bayliss

ASSIGNED PATENTS

NOTE: ALL PATENTS / APPLICATIONS UNITED STATES UNLESS OTHERWISE INDICATED

Docket #	Title	Inventors	Application No.	Patent No.
----------	-------	-----------	-----------------	------------

89008	LOW COST DIE SIZED MODULE FOR IMAGING APPLICATION	<ul style="list-style-type: none"> • TAKIAR HEM • PARBHU ASHOK • NGUYEN LUU 	09/618,747	
-------	--	--	------------	--

89012	PIXEL PROCESSING SYSTEM FOR IMAGE SCANNING APPLICATIONS	<ul style="list-style-type: none"> • BOISVERT DAVID MICHAEL • CLARK JOSEPH D • LEBOEUF ROBERT • MAIGRET MICHAEL • MCMAHON ANDREW 	09/957,946	
89013	HIGH VOLTAGE RESET METHOD FOR INCREASING THE DYNAMIC RANGE OF A CMOS IMAGE SENSOR	<ul style="list-style-type: none"> • GUPTA SHIVANI • KINDT WILKO (WILLEM) • PHAN CHRISTINA 	09/939,217	

ASSIGNED PATENTS

Docket #	Title	Inventors	Application No.	Patent No.
89015	PIXEL BINNING IMAGE SENSOR	<ul style="list-style-type: none"> KINDT WILKO (WILLEM) SEGERSTEDT BRIAN 	10/098,235	
89017	AUTOMATIC EXPOSURE CONTROL FOR AN IMAGE SENSOR	<ul style="list-style-type: none"> KINDT WILKO (WILLEM) LEE BUMHA 	10/115,650	
89025	AUTOMATICALLY BALANCED EXPOSURE TIME AND GAIN IN AN IMAGE SENSOR	<ul style="list-style-type: none"> KINDT WILKO (WILLEM) 	10/255,252	
89026	APPARATUS AND METHOD FOR WAFER LEVEL PACKAGING OF OPTICAL IMAGING SEMICONDUCTOR DRIVES	<ul style="list-style-type: none"> LEE SHAW WEI PRABHU ASHOK 	10/150,275	
89027	APPARATUS AND METHOD FOR WAFER LEVEL PACKAGING OF OPTICAL IMAGING SEMICONDUCTOR DRIVES	<ul style="list-style-type: none"> LEE SHAW WEI PRABHU ASHOK 	10/217,341	
89028	BLOOMING CONTROL FOR A CMOS IMAGE SENSOR	<ul style="list-style-type: none"> PHAN CHRISTINA 	10/273,956	
89029	BLACK LEVEL CALIBRATION METHOD IN IMAGER WITH HYSTERESIS COMPARISON AND ADAPTIVE STEP SIZE	<ul style="list-style-type: none"> LEE BUMHA MCMAHON ANDREW 	10/290,782	
89030	COLOR IMAGER CELL WITH TRANSISTORS FORMED UNDER THE PHOTODIODES	<ul style="list-style-type: none"> REDA RAZOUK 	10/340165	
89032	COLUMN LEVEL CHARGE AMPLIFIER	<ul style="list-style-type: none"> SEGERSTEDT BRIAN KINDT WILKO (WILLEM) 	10/353,614	
89033	CMOS IMAGE SENSOR OVERSATURATION PROTECTION CIRCUIT	<ul style="list-style-type: none"> LEE BUMHA PHAN CHRISTINA 	10/607,943	
89035	ADAPTIVE SETTING OF WAVELET SUB-BAND THRESHOLDS FOR LOW-LIGHT IMAGE DENOISING	<ul style="list-style-type: none"> HATIPOGLU SERKAN 	10/644,586	
89037	BI-DIRECTIONAL HORIZONTAL SCAN CIRCUIT WITH SUB-SAMPLING AND HORIZONTAL ADDING FUNCTIONS	<ul style="list-style-type: none"> LUO QIANG 	10/641,605	
89038	CHARGE DIFFUSION CROSSTALK REDUCTION FOR IMAGE SENSORS	<ul style="list-style-type: none"> LUO QIANG 	10/688,657	
89039	HIGH PHOTSENSITIVITY CMOS IMAGE SENSOR PIXEL ARCHITECTURE	<ul style="list-style-type: none"> KINDT WILKO (WILLEM) LUO QIANG PHAN CHRISTINA 	10/759,899	
89041	IMAGER DIODE WITH SIDEWALL PASSIVATION	<ul style="list-style-type: none"> HOPPER PETER DRURY ROBERT MIRGORODSKI YURI VASHCHENKO VLADISLAV 	10/698,647	
89042	COLOR IMAGER AND LOW-COST METHOD OF FORMING THE IMAGER	<ul style="list-style-type: none"> HOPPER PETER DRURY ROBERT LINDORFER PHILIPP VASHCHENKO VLADISLAV 	10/728,612	
89043	SYSTEM AND METHOD FOR LOW-COST PROGRAMMABLE IMAGE RESIZING	<ul style="list-style-type: none"> SHARMA ANIL SHARMA CHANDAN 	10/803,483	

ASSIGNED PATENTS

Docket #	Title	Inventors	Application No.	Patent No.
89044	LOW DARK CURRENT CMOS IMAGE SENSOR PIXEL HAVING A PHOTODIODE ISOLATED FROM FIELD OXIDE	<ul style="list-style-type: none"> • LUO QIANG 	10/786,846	
89045	IMAGING CELL WITH A NON-VOLATILE MEMORY THAT PROVIDES A LONG INTEGRATION PERIOD AND METHOD OF OPERATING THE IMAGING CELL	<ul style="list-style-type: none"> • HOPPER PETER • GREIG WENDY • LINDORFER PHILIPP • VASHCHENKO VLADISLAV 	10/821,391	
89046	IMAGING CELL THAT HAS A LONG INTEGRATION PERIOD AND METHOD OF OPERATING THE IMAGING CELL	<ul style="list-style-type: none"> • HOPPER PETER • GREIG WENDY • LINDORFER PHILIPP • VASHCHENKO VLADISLAV 	10/821,286	
89047	METHOD FOR ACHIEVING LOW DARK CURRENT, LOW BAD PIXELS CMOS IMAGE SENSOR WITH STANDARD DEEP SUBMICRON CMOS LOGIC PROCESS	<ul style="list-style-type: none"> • KWONG EDITH • LUO QIANG • PHAN CHRISTINA • STATON ERIC • THOR CARON 	10/853,806	
89048	METHOD AND APPARATUS FOR MEASURING IMAGE LAG IN CMOS IMAGE SENSOR SYSTEMS	<ul style="list-style-type: none"> • LUO QIANG • THOR CARON 	10/835,889	
89049	A NOVEL HIGH SENSITIVITY IMAGER DIODE WITH INTEGRAL GAIN	<ul style="list-style-type: none"> • HOPPER PETER • HWANG KYUWOON • LINDORFER PHILIPP • VASHCHENKO VLADISLAV 	10/854,079	
89050	METHOD TO CHARACTERISE ELECTRICAL CROSS TALK OF COLOR SOLID-STATE IMAGE SENSORS	<ul style="list-style-type: none"> • LUO QIANG 	10/854,056	
89051	AN IMAGING CELL WITH ENHANCED SENSITIVITY	<ul style="list-style-type: none"> • HOPPER PETER • MIRGORODSKI YURI • LINDORFER PHILIPP • POULTER MARK 	10/863,058	

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.